



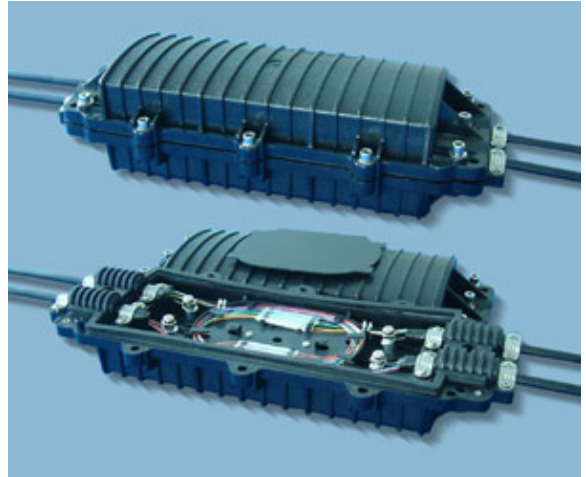
## IN-LINE TYPE FIBER OPTIC CLOSURES

### Description

Pacific Interconnections' in-line fiber splice closures are compliant with IEC 1073-1. The closures are made of tough anti-corrosive Polycarbonate that makes the closures ideal for aerial, cable duct, direct burial and well applications.

Our inline closures include CLS-I48, CLS-I60 and CLS-I132 series. The CLS-I48 and CLS-I60 have 4 cable entry ports, and the CLS-I132 provides 6 cable entry ports with 3 different diameters. The CLS-I48 can accommodate up to 4 12-fiber splice trays. The CLS-I60 can hold up to 5 12-fiber or 24-fiber splice trays. The CLS-I132 can house a maximum of 11 splice trays which can house a maximum 12 or 24 single fiber splices.

The closures employ gasket-sealing technology that enables ease of installation and re-entry requiring no special tools.



### Features

- Reliable gasket sealing
- No special tool required for installation
- Re-enterable with no re-entry kit needed
- High compressive strength

### Applications

- Suitable for ribbon and non-ribbon fibers
- Aerial, duct, direct burial, and well
- Trunk lines
- Access networks

### Specifications

Characteristics	Value/Performance		
	CLS-I48	CLS-I60	CLS-I132
Type	CLS-I48	CLS-I60	CLS-I132
<b>Basic</b>			
No. of Cable Port	4	4	6
Max. Cable Diameter allowed	18mm	13mm	23mm/20mm/16mm*1
Dimension	465x180x122mm <sup>3</sup>	467x190x122mm <sup>3</sup>	450x216x160mm <sup>3</sup>
Weight	2.6kg	2.8kg	3.5kg
Operating Temperature	-40 ~ +60°C		
Fiber Bend Radius	30mm		
Max. No. of Splice Trays	4	5	11
Max. Capacity (single fiber splice)*2	48	60	132

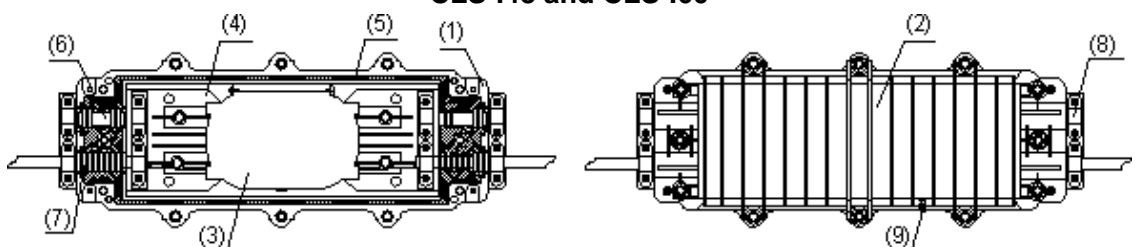
\*1 See drawing. \*2 Capacity is for 12-fiber splice trays, it is doubled if 24-fiber splice trays are used.

## Specifications

Characteristics	Value/Performance	Methods and Conditions
<b>Mechanical</b>		
Air Tightness	No air bubble seen	Put closure under water for 15min with closure's internal air pressure set at 100kPa $\pm$ 5kPa.
	Remains 100kPa $\pm$ 5kPa	Measure the internal pressure 24 hours later
Air Tightness after re-installation	No air bubble seen and pressure remains unchanged	Do re-entry and re-installation 3 times and repeat above Air Tightness Tests.
Axial Pulling	Pressure remains unchanged	Pulling force: 1000N Time: 1min Internal air pressure: 60kPa $\pm$ 5kPa
Compression	Pressure remains unchanged	Applied pressure: 2000N/100mm Time: 1min Internal air pressure: 60kPa $\pm$ 5kPa
Impact	Pressure remains unchanged	Impact energy: 16N.m No. of impacts: 3 Internal air pressure: 60 $\pm$ 5kPa
Bending	Pressure remains unchanged	Bending angle: $\pm$ 45 $^{\circ}$ (in two opposite directions) Tension: 150N No. of bending: 10 Internal air pressure: 60kPa $\pm$ 5kPa
Twisting	Pressure remains unchanged	Twisting angle: $\pm$ 90 $^{\circ}$ Torque: 50N No. of twisting: 10 Internal air pressure: 60kPa $\pm$ 5kPa
<b>Thermal</b>		
Temperature Cycling	Pressure drop $\leq$ 5kPa	Cycling range: -40 ~ +60 $^{\circ}$ C Cycling time: 2hrs at -40 $^{\circ}$ C, then 2hrs at +60 $^{\circ}$ C No. of cycling: 3 Internal air pressure: 60kPa $\pm$ 5kPa
<b>Electrical</b>		
Insulation	Resistance between metal parts: 2.0x10 <sup>5</sup> M $\Omega$	Soak closure into water in 1.5m-depth for 24hrs, and measure the insulation resistance after taking it out of water.
	Resistance between each metal part and ground: 2.0x10 <sup>5</sup> M $\Omega$	
High Voltage	No voltage break-downs and sparks	Soak closure into water in 1.5m-depth for 24hrs, then apply 15kV DC to the metal parts inside

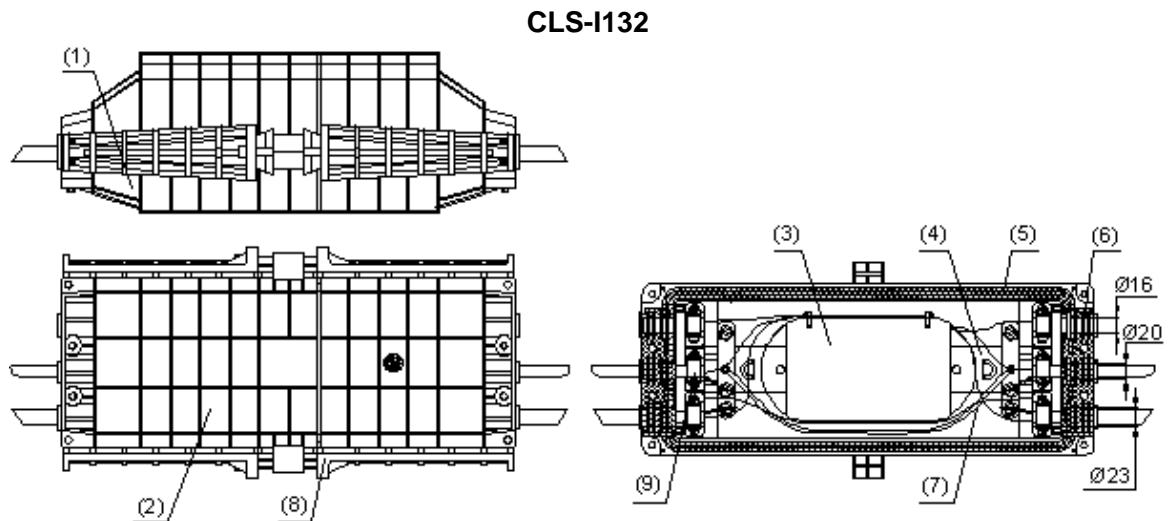
## Structural Drawing

CLS-I48 and CLS-I60



Above splice closure includes a (1)closure base, (2)closure cover, (3) splice tray(s), (4)splice tray holder, (5)silicon rubber gasket, (6)plug, (7)cable ring, (8)cable clamp, and (9)gas valve (optional).

## Structural Drawing



Above splice closure includes a (1)closure base, (2)closure cover, (3) splice tray(s), (4)splice tray holder, (5)silicon rubber gasket, (6)plug, (7)grounding wire, and (8)lock device.

## Ordering Information

Part Number: **CLS-I48/48**

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<b>1</b> Product Type	I48	Inline type closure with max. 4 splice trays
	I60	Inline type closure with max. 5 splice trays
	I132	Inline type closure with max. 11 splice trays
	I48ST1	Splice tray for CLS-I48, each tray can hold 12 splices
	I60ST1	Splice tray for CLS-I60, each tray can hold 12 splices
	I60ST2	Splice tray for CLS-I60, each tray can hold 24 splices
	I132ST1	Splice tray for CLS-I132, each tray can hold 12 splices
	I132ST2	Splice tray for CLS-I132, each tray can hold 24 splices
	I48SG	Sealing gasket for CLS-I48
I60SG	Sealing gasket for CLS-I60	
I132SG	Sealing gasket for CLS-I132	
<b>2</b> Fiber Count *3 (single fiber)	144	144 fiber counts, 6pcs 24-fiber splice trays installed
	96	96 fiber counts, 8pcs 12-fiber splice trays installed
	48	48 fiber counts, 4pcs 12-fiber splice trays installed
	24	24 fiber counts, 2pcs 12-fiber splice trays installed
	Blank	For splice tray and sealing gasket

\*3 24-fiber splice trays can be provided on request with half quantity of 12-fiber splice trays.

Products manufactured in  
ISO 9001 certified facilities



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